

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	("3194870" "4032983" "6115477"). PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 15:22
L2	1	"3346461".pn.	EPO; JPO	OR	OFF	2007/03/17 15:26
L3	8	kazuhiro.in. and oshika.in.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 15:27
L4	35	satoshi.in. and koura.in.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 15:27
L5	40	3 4	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 15:31
L6	0	381/89,335,336,116,117,164,365, 182,385,386,388,396,395,396,410, 401,408,409	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 15:33
L7	3084	(pcb (print\$2 adj circuit adj board)) near3 array	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 15:33
L8	2306	(381/89,335,336,116,117,164,365, 182,385,386,388,396,395,396,410, 401,408,409).CCLS.	USPAT	OR	OFF	2007/03/17 15:33
L9	0	7 and 8	USPAT	OR	OFF	2007/03/17 15:33
L10	170302	(pcb (print\$2 adj circuit adj board))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 15:33
L11	105	8 and 10	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 15:33
L12	14705953	@ad<="20040830"	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 18:11
L13	14705979	11and 12	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 15:34
L14	105	11 and 12	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 15:34

## EAST Search History

L15	25	("1839130"   "20020076041"   "3612778"   "3668335"   "3873956"   "3935634"   "4188513"   "4207442"   "4247796"   "4262399"   "4281222"   "4321432"   "4492825"   "4533795"   "4922471"   "4996627"   "5377524"   "5629578"   "5642015"   "5677965"   "5682290"   "5889871"   "6178249"   "6201874").PN. OR ("6842964").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 15:51
L16	46	("4404489"   "4409510"   "4479069"   "4523121"   "4638468"   "4656384"   "4681667"   "4734608"   "4819216"   "4825115"   "4864179"   "4890268"   "4903166"   "4950936"   "5058250"   "5202703"   "5311095"   "5329496"   "5329498"   "5365140"   "5381067"   "5381385"   "5459368").PN. OR ("5629578").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 15:57
L17	14	("5311095"   "5548564"   "5617865"   "5629578"   "5644085"   "5732706"   "5744898"   "5786597"   "5834880"   "5906580"   "6087762"   "6246158"   "6263551"   "6409667").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 16:06
L18	1518	"381"/\$.ccls. and ((pcb) ((circuit printed) near3 board))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 16:58
L19	1595	"381"/\$.ccls. and ((pcb) ((circuit printed) near3 board))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/03/17 18:11
L20	191	19 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/03/17 16:08
L21	191	12 and 20	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 16:08
L22	7	("4875546"   "5073945"   "5537479"   "5561717"   "5790679"   "6160897").PN. OR ("6628790").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 16:29

## EAST Search History

L23	11	("1844219"   "3668336"   "4122302"   "5369701"   "5392358"   "5533129"   "6035962"   "6175636"   "6188772"   "D302979").PN. OR ("6459799").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 16:34
L24	5	("3917914"   "6111971").PN. OR ("6370257").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 16:51
L25	22	("3499988"   "3941932"   "4132861"   "4220832"   "4255815"   "4504704"   "4559584"   "4625328"   "4811403"   "5097513"   "5524283"   "5533132"   "5602930"   "5796853"   "5872855"   "5937074").PN. OR ("6243472").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 16:52
L26	49	("3778551"   "3982607"   "3991286"   "4138593"   "4210778"   "4449579").PN. OR ("4811403").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 16:56
L28	7	26 and ((pcb) ((circuit printed) near3 board))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 17:01
L29	4	("4445228"   "4811403"   "5466899").PN. OR ("5677961").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 17:00
L30	1	29 and ((pcb) ((circuit printed) near3 board))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 17:02
L31	14	("4716499"   "4852178"   "5115884"   "5166868"   "5208736"   "5610992"   "5627450"   "5646820"   "5682290"   "5689574"   "5699438").PN. OR ("6081421").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 17:13
L32	5	("5394479"   "5432758").PN. OR ("5721785").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 17:33
L33	14	("4506117"   "4608463"   "4691363"   "4837836"   "5394479"   "5619585"   "5719549"   "5721785"   "5960096"   "6097828"   "6108432").PN. OR ("6229903").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 17:47
L34	89368	((speaker transducer) array) and ((pcb) ((circuit printed) near3 board))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/03/17 18:11

## EAST Search History

L35	33639	((speaker transducer) array) same ((pcb) ((circuit printed) near3 board))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/03/17 18:47
L36	649	"381"/\$.ccls. and 35	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/03/17 18:13
L37	550	@ad<="20040830" and 36	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 19:50
L38	487	37 not 14	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 18:14
L39	238	((speaker transducer) near5 array) same ((pcb) ((circuit printed) near3 board))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/03/17 19:53
L40	11	"381"/\$.ccls. and 39	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/03/17 20:16
L41	209	@ad<="20040830" and 39	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 19:54
L42	208	41 not 14	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 18:31
L43	52021	impedance near4 (match\$4 equaliz\$4 approximat\$4)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 18:46
L44	75	42 and 43	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 18:32
L45	6376	43 same series	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 18:44
L46	1940	43 near8 series	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 18:44
L47	0	46 and 39	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 18:45
L48	1400	series near5 (impedance near4 (match\$4 equaliz\$4 approximat\$4))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 19:49

## EAST Search History

L49	0	40 and 48	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 18:46
L50	17	35 and 48	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/03/17 18:47
L51	19	(hearing adj aid) near5 (impedance near4 (match\$4 equaliz\$4 approximat\$4))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/17 18:56
L52	8923	(impedance near4 (equaliz\$4 approximat\$4))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 19:52
L53	8114	@ad<="20040830" and 52	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 19:50
L54	17	53 and 8	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 19:50
L55	1050	(impedance near4 (equaliz\$4 approximated))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 19:52
L56	964	@ad<="20040830" and 55	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 19:54
L57	0	56 and 39	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/03/17 19:53
L58	180	55 and array	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 19:54
L59	160	@ad<="20040830" and 58	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/03/17 19:54
L60	35	"381"/\$.ccls. and 55	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2007/03/17 20:16
L61	33396	matsushita.as. and electric.as.	US-PGPUB; USPAT	OR	OFF	2007/03/17 20:39
L62	8	inductrial.as. and electric.as.	US-PGPUB; USPAT	OR	OFF	2007/03/17 20:39
L63	32022	industrial.as. and electric.as.	US-PGPUB; USPAT	OR	OFF	2007/03/17 20:40
L64	7	61 and 62	US-PGPUB; USPAT	OR	OFF	2007/03/17 20:40

## EAST Search History

L65	31300	61 and 63	US-PGPUB; USPAT	OR	OFF	2007/03/17 20:40
L66	1	64 and loudspeaker	US-PGPUB; USPAT	OR	OFF	2007/03/17 20:40